CLAIMS

- A method for preparing electrodes based on activated carbon and carbon nanotubes on a collector, comprising the following steps:
 - (a) blending of an initial powdery carbon material and a solvent;
 - (b) addition of a polymer binder and blending until homogenized;
 - (c) drying of the paste;
 - (d) optionally, mixing of the paste; and
 - (e) covering of the collector.
- 15 2. The method as claimed in claim 1, in which step a) is carried out by ultrasonication.
 - 3. The method as claimed in either of claims 1 and
- 2, in which step a) is carried out at a temperature of 20 at least 50°C .
 - 4. The method as claimed in one of claims 1 to 3, in which the initial powdery carbon material of step a) is obtained by a method comprising the following steps:
- 25 (f) dispersion of the carbon nanotubes in a solvent, preferably water;
 - (g) addition of the activated carbon and blending; and
- (h) drying of the initial powdery carbon 30 material.
 - 5. The method as claimed in claim 4, in which the addition of activated carbon is followed by ultrasonication.

6. The method as claimed in one of claims 1 to 5, in which the initial powdery carbon material is a blend

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of activated carbon and carbon nanotubes, in a weight proportion ranging from 95/5 to 50/50.

- 7. The method as claimed in one of claims 1 to 6, in which the binder is an aqueous suspension of PTFE or styrene/butadiene.
- 8. The method as claimed in one of claims 1 to 7, in which step d) is carried out to fibrillation of the 10 binder.
 - 9. A method for preparing a paste based on activated carbon and carbon nanotubes, comprising steps a) to d) as claimed in one of claims 1 to 8.

10. An improved-aging electrode obtained by the method as claimed in one of claims 1 to 8.

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11. A supercapacitor comprising at least one 20 electrode as claimed in claim 10.